

## ABSTRACT

The present invention provides a simple and low-cost flat microlens that can be used in various optical fields in a mechanically and thermally stable  
5 manner.

A microlens is formed using a transparent DLC film (41). The DLC film (41) includes regions (R<sub>mn</sub>) with graded indices of refraction. When a light beam passes through a region with graded indices of refraction, the light is focused.